

Observations of Encke's Comet made at the Royal Observatory, Greenwich.

(Communicated by the Astronomer Royal.)

The observations were made with the East, or Sheepshanks, Equatorial, a aperture 6'7 inches, by taking transits over two cross-wires at right angles to each other, and each inclined 45° to the parallel of declination. Magnifying power, 55.

Greenwich Mean Solar Time.	Observer.	-* RA.		Corr. for Refraction.	Corr. for Parallax.	-* N.P.D.	Corr. for Refraction.	Corr. for Parallax.	No. of Comps.	Apparent R.A. of $\frac{\pi}{\psi}$.	Apparent N.P.D. of $\frac{\pi}{\psi}$.	Comp. *	
		m	s										
1895. d Jan. 13	B.	-2	10°14'	-0°03	+0°35	+12°50'9	+0°4	-9°4	2	22	5 12°93	89°32'44.9	a
5 43 29	"	-3	15°03'	+0°01	+0°37	-5 31'3	-0°2	-9°4	4	22	5 12°43	89°32'54.7	b
6 12 21	H. F.	+3	33°65'	0°00	+0°42	+1 257	+0°1	-9°5	8	22	3 43°23	89°54'18.1	c
6 12 21	"	+1	59°92'	+0°01	+0°42	-2 16'1	-0°1	-9°5	8	22	3 43°17	89°54'16.0	d
6 38 7	B.	-0	7°24'	+0°04	+0°48	-7 10'0	-0°6	-9°8	1	22	0 15°89	90°42'33.8	e
6 33 24	H.	-1	12°17'	+0°09	+0°48	-14 10'9	-0°7	-10°0	3	21	58 10°97	91°10'35.7	f
6 33 24	"	-1	39°23'	+0°01	+0°48	-1 50'6	0°0	-10°0	3	g
5 52 40	B.	-0	23°19'	-0°01	+0°45	+ 2 24'1	+0°2	-10°2	3	21	55 57°20	91°40'21.0	h
5 56 43	H. F.	-0	23°65'	-0°01	+0°46	+ 2 27'7	+0°2	-10°2	3	21	55 56°75	91°40'24.6	h
6 21 4	A. C.	-0	26°02'	-0°02	+0°49	+ 3 6'0	+0°4	-10°2	2	21	55 54°40	91°41'3.1	h
5 41 49	"	+1	3°11'	+0°07	+0°52	-7 40'1	-0°6	-11°1	3	21	39 57°27	95°5 0'6	i
5 47 39	"	-1	58°20'	0°00	+0°52	-0 24'2	0°0	-11°0	3	21	39 56°69	95°5 12°2	k

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The observations are corrected for refraction and parallax. In computing the latter log Δ has been taken from Dr. Backlund's ephemeris (*Ast. Nach.*, 3263), the values used being 9°8652, 9°8594, 9°8476, 9°8417, 9°8356, and 9°8068 on January 13, 14, 16, 17, 18, and 23 respectively. The observations are also corrected for the error of inclination of the wires, and for the motion of the comet. The apparent errors of Dr. Backlund's ephemeris in R.A. and N.P.D. (Tabular—Observed) are $-2^{\circ}91$, $+17^{\prime}2$ from star a ; $-3^{\circ}00$, $+16^{\prime}0$ from star b ; $-2^{\circ}22$, $+13^{\prime}5$ from star c ; $-2^{\circ}16$, $+15^{\prime}6$ from star d ; $-5^{\circ}00$, $+41^{\prime}4$ from star e ; $-3^{\circ}39$, $+24^{\prime}5$ from star f ; $-4^{\circ}01$, $+24^{\prime}1$ from star g (B.); $-3^{\circ}96$, $+25^{\prime}9$ from star h (H. F.); $-4^{\circ}05$, $+19^{\prime}5$ from star h (A. C.); $-5^{\circ}84$, $+35^{\prime}2$ from star i ; $-6^{\circ}24$, $+35^{\prime}8$ from star j .

January 13.—Cloudy; comet very bright.
January 22.—Comet visible in $\text{field}\text{ }h_1\text{--}h_2$, $\text{mag. }+11\text{--}10$.
January 14.—Comet faint; cloudy.
January 16.—Very cloudy; observation rough.

January 23.—Comet vision in rarely bright twight.
The initials H., A. C., B., and H. F. are those of Mr. Hollis, Mr. Crommelin, Mr. Bryant, and Mr. Furner respectively.

March 1895.

of Encke's Comet.

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Comparison Stars.

Star's Name.	Assumed R.A. 1895 ^o .	Assumed N.P.D. 1895 ^o .	Authority.
<i>a</i> Lalande, 43336	22 7 23 ⁵³	89 19 57 ³	Munich, Schjellerup, and Pulkowa Catalogues.
<i>b</i> W.B. XXII., 112	22 8 27 ⁸⁵	89 38 29 ⁹	Göttingen and Munich Catalogues.
<i>c</i> B.D.-o°, 4304	22 0 9 ⁹⁶	89 52 55 ⁶	Karlsruhe and Schjellerup Catalogues.
<i>d</i> W.B. XXI., 1379	22 1 43 ⁶²	89 56 35 ⁶	Brussels, Göttingen, Munich, Pulkowa, and Radcliffe 1890 Catalogues.
<i>e</i> α Aquarii	22 0 23 ⁴¹	90 49 47 ⁷	Greenwich Five-year Catalogue of Fundamental Stars, 1890.
<i>f</i> 32 Aquarii	21 59 23 ³⁶	91 24 50 ⁶	Radcliffe 1860, Yarnall, Schjellerup, Glasgow 1870, Karlsruhe and Radcliffe 1890 Catalogues.
<i>g</i> B.D.-1°, 4245	21 59 52 ⁰	91 13 0 ⁰	Bonn Observations, vol. iii.
<i>h</i> W.B. XXI., 1261	21 56 20 ⁷⁵	91 37 59 ⁹	Karlsruhe Catalogue.
<i>i</i> W.B. XXI., 865	21 38 54 ³⁸	95 12 44 ⁰	Yarnall, 2nd Armagh, Paris, Karlsruhe, Radcliffe 1890 and Glasgow 1890 Catalogues.
<i>k</i> W.B. XXI., 938	21 41 55 ¹⁷	95 5 39 ¹	2nd Armagh, Glasgow 1870, Karlsruhe and Radcliffe 1890 Catalogues.

Notes.

The R.A. of star *a* in Lalande is 27° too great. Star *d* is the double star Σ 2862; the mean of the places of the components has been used. A proper motion of +0°0103 in R.A. has been applied to star *h*, deduced from comparison with Lalande, Weisse's Bessel, and Munich Catalogues. The R.A. of star *i* in Weisse's Bessel is 1° too small. The R.A. of star *k* in Weisse's Bessel is 50° too small.

Royal Observatory, Greenwich:
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